Internet Pictures Corporation

iPIX Photography with Nikon Digital Cameras

Coolpix 700, 800, 900, and 950 models

DOC- NIKL- R1

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TABLE OF CONTENTS

1 • Welcome to iPIX® Imaging 1

Supported Camera Models 2
The iPIX Picture-taking Process 2
Minimum Requirements 3
Technical Support 4

2 • Installing Your Software 5

Step 1: Install iPIX Software 6
Step 2: Install Adobe Acrobat Reader 7

3 • Preparing for Photography 9

Photography Preparations 10
Assembling Your iPIX Camera Equipment 12

4 • Setting up Your Camera 15

Nikon Coolpix 700 16
Nikon Coolpix 800 17
Nikon Coolpix 900 19
Nikon Coolpix 950 20

5 • Taking Your Pictures 23

Photography Tips for iPIX Images 24
Step 1: Set the Auto Exposure Lock 26
Step 2: Set the White Balance 28

Step 3: Take the First Picture 30
Step 4: Take the Second Picture 31
Step 5: Finish Your Photo Session 31

6 • Downloading Images 33
Option 1: Serial or USB Cables 34
Option 2: PCMCIA Card 38
Option 3: USB Card Reader 38
Option 4: Parallel Port Card Reader 38

1

Welcome to iPIX® Imaging

Thank you for your purchase of an iPIX® Camera Kit featuring the Nikon Coolpix digital camera. With your kit, you can shoot and build immersive iPIX images in a matter of minutes. iPIX images enable you to "step inside" an environment—exploring up, down, and all around. It is a solution that has proven valuable for many markets, including real estate, travel, publishing, education, training, and journalism.

This book describes the steps to set up your equipment, establish settings on your camera to optimize it for iPIX photography, and download your images to your computer.

Two of the most important camera kit components are the fisheye lens and rotator. The fisheye lens attaches to your camera and broadens the field of view (FOV) of your camera's fixed lens. The rotator lets you turn your camera exactly 180°—capturing one 180° picture, or "hemisphere." Two hemispheres are used to create an iPIX image.

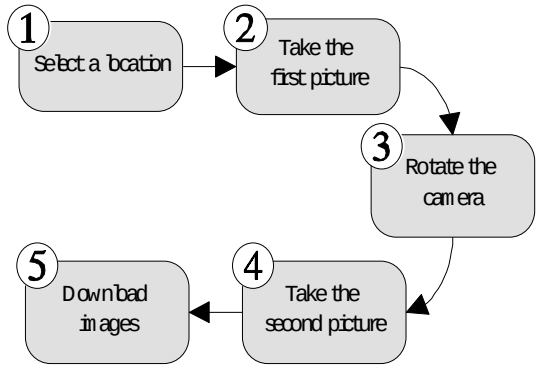
The fisheye lens and rotator attach to the camera. The rotators are customized for each camera model.

Supported Camera Models

iPIX photography supports eight Nikon Coolpix digital camera models, including the 700, 800, 880, 885, 900, 950, 990, and 995. This photography guide covers the Coolpix 700, 800, 900, and 950 models. Contact Internet Pictures on the World Wide Web at http://www.ipix.com for guides for camera models not listed here.

The iPIX Picture-taking Process

This iPIX Photography guide explains how to set up your camera and take pictures for iPIX image creation. The picture taking process is illustrated below.



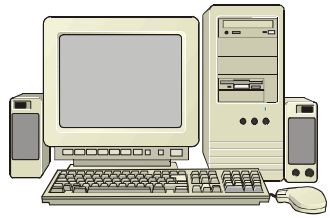
1. Select a location and place the camera close to an area of interest.
2. Take the first picture using the settings outlined in this Guide.
3. Rotate the camera 180°.
4. Take the second picture.
5. Download the images to your computer.

Minimum Requirements

The minimum system requirements will depend upon the software you purchased. Your iPIX software manual contains complete details.

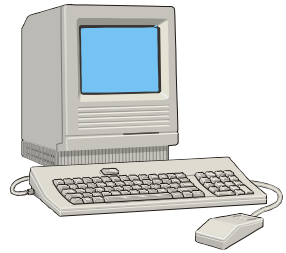
Personal Computer Requirements

To use this kit and all included software with your personal computer, you will need:



- One free serial port, USB port, or a PCMCIA Type II card slot.
- Microsoft Windows 95, 98, 2000, ME, XP, or Windows NT 4.0 or later.
- Quad-speed or faster CD-ROM drive.
- Pentium 133 MHZ or faster processor (166 MHz or faster recommended).
- 32 MB RAM (64 MB recommended).
- 75 MB or more free hard disk space.
- Video display capable of 800 x 600 pixels or higher with 256 colors (65,535 colors or higher recommended).

Macintosh Computer Requirements



To use this kit and all included software with your Macintosh computer, you will need:

- One free serial port on your computer, USB port, or a PCMCIA Type II card slot

To use the USB connectivity option, System 8.6 or later must be installed on your computer.

- System 8.1 with Appearance Manager installed, System 8.6 or later recommended.
- QuickTime 4.0 or later installed.
- Quad-speed or faster CD-ROM drive.
- PowerPC 603e 180 Mhz or faster processor.
- 64 MB of physical RAM.
- 60 MB of free hard disk space.
- Video display capable of 640 x 480 pixels or higher with 256 colors (thousands of colors or better recommended).

Technical Support

Technical support is available for assistance with any iPIX product by visiting Internet Pictures Corporation's Web site located at http://www.ipix.com/support/support.shtml or by calling toll-free (888) 425-0048.

2

Installing Your Software

Your iPIX® Camera Kit includes three or more CD-ROMs: iPIX Software, Nikon Coolpix Reference Manuals, and Nikon View software, depending upon your camera model.

- *iPIX Software*. Your iPIX software creates interactive, spherical images by aligning and seaming, two opposing hemispheres taken with a fisheye lens-equipped digital camera.
- *iPIX Viewer Software*. The iPIX CD includes the iPIX Viewer, a standalone application for viewing iPIX images. The Viewer software also comes with Internet browser plug-ins for Netscape Navigator/ Communicator, and Microsoft Internet Explorer.
- *Nikon Reference Manuals CD*. The Nikon Reference CD contains electronic versions of the available camera documentation. This CD also contains the installation program for Adobe Acrobat Reader. Adobe Acrobat Reader allows you to view, navigate, and print PDF files.
- *Nikon View*. The Nikon View software allows your computer and the Nikon Coolpix camera to communicate. The Nikon View software also lets you view the images on your camera and download them to your hard drive.

Step 1: Install iPIX Software

The iPIX Viewer and iPIX Plug-ins are installed during this process. The exact steps may vary. Please refer to your iPIX User Manual for detailed instructions.

Windows Installation

This procedure will walk you through installing the iPIX software on your computer.

1. Insert the iPIX CD into your CD-ROM drive. The *Setup* program should start automatically.

If the program does not start, click on the Start button on the Windows Task Bar. Select *Run*. Type D:\setup.exe (where D: is the letter of your CD-ROM drive) and press the Enter key on your keyboard.

2. Select the iPIX software you wish to install.
3. Follow the on-screen instructions.

Macintosh Installation

This procedure will install the iPIX software on your computer.

iPIX software on the Macintosh requires the Appearance Manager and QuickTime. If you do not have these items on your computer, the Installation program will automatically install them. After the installation is completed, you may need to restart your computer.

1. Close any open applications and insert the iPIX CD into your CD-ROM drive.
2. Double-click the iPIX icon when it appears on the desktop, then open the Setup icon.
3. Select the iPIX software you wish to install.
4. Follow the on-screen instructions.

Step 2: Install Adobe Acrobat Reader

Adobe Acrobat Reader software is used to read the electronic copy of the software manual included with your iPIX software. This step is optional.

Windows Installation

1. Turn on your computer and place the iPIX CD in your CD-ROM drive. The setup screen should start automatically.
2. Select the Install Acrobat Reader option.
3. Follow the on-screen directions.

Macintosh Installation

1. Turn on your computer and place the iPIX CD into your CD-ROM drive.
2. Double-click on the iPIX CD icon when it appears on your desktop.
3. Double-click on the Setup icon to start the setup screen.
4. Select the Install Acrobat Reader option to begin.
5. Follow the on-screen directions.

3

Preparing for Photography

This chapter will walk you through preparing your digital camera for iPIX® photography. Some steps are specific to particular camera models. These sections are labeled with the camera model number in the heading.

Before you work with your camera, familiarize yourself with your new equipment. Most kits will include software, rotator, fisheye lens, and fisheye lens adapter for your camera. Other optional items, like additional memory cards, memory card readers, tripods, etc., may be included in your kit.

Every digital camera supported by Internet Pictures uses a custom-designed fisheye lens, rotator, and lens adapter, like the one shown.

Turning the Camera Off

Before changing batteries and inserting or removing the memory card, make sure that your camera is turned off. To turn your Nikon digital camera off, switch the camera's mode dial to the OFF position.

Photography Preparations

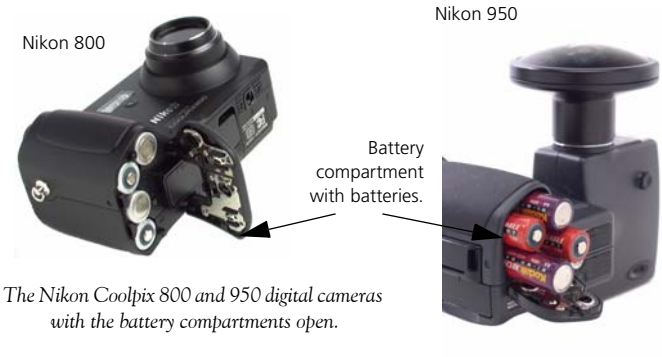
The following instructions in this section will work with any supported Nikon Coolpix digital camera models.

Step 1: Insert the Batteries

1. Remove the batteries from the kit.

If your kit comes with rechargeable batteries, charge the nickel metal hydride (NiMH) batteries before using them in the camera. Only use the charger with NiMH batteries.

2. Open the battery compartment on the underside of the camera by pressing the button and sliding the cover out.
3. Slide the battery compartment door out, and lift it up.
4. Insert the batteries according to the inner diagram.
5. Push the flap down and slide it in.



The Nikon Coolpix 800 and 950 digital cameras with the battery compartments open.

Step 2: Insert the Memory Card

1. Locate the memory card. Some kits include a larger memory card, like the one shown at right
2. Remove the card from its plastic case.
3. Open the memory card door.

The memory card door is on the underside or side of the camera, depending upon your camera model.

4. Gently insert the card.
5. As you insert the card, the Card Release button to the left side will move up.
6. After the card release button pops up, fold the button down.
7. Close the door.

Assembling Your iPIX Camera Equipment

Careful assembly of your camera equipment and tripod will ensure high iPIX image quality. Make sure your tripod is firmly set up and that you pay close attention to avoid bumping or moving it between pictures.

Step 1: Assemble the Tripod and Rotator

1. Remove the rotator.
2. Extend each tripod leg by starting at the bottom, loosening the twist bolts, and extending it to its full length.
3. Tighten the bolt.
4. Repeat the process for the remaining legs.
5. Turn the base of the rotator clockwise to firmly attach it to the tripod.

Step 2: Attach the Fisheye Lens Adapter

1. Remove the fisheye lens with attached adapter from the case.

2. Remove the back lens cap from the fisheye converter lens, being careful not to touch the lens glass.
3. Leave the front fisheye lens cap on until you are ready to shoot.

4. Attach the back of the fisheye converter lens to the threaded camera lens. Do not over tighten.

Step 3: Attach the Camera to the Rotator

1. Place the camera on the rotator.
2. Align the threaded mount on the bottom of the camera with the thumb screw on the rotator.
3. The camera body will sit differently on the rotator depending upon your camera model. The front of the camera lens should sit directly over the rotator's center.

The rotator cradles and supports the camera body. The camera should have very little movement once it is securely fastened to the rotator.

4. Gently turn the thumb screw on the rotator clockwise to secure the camera. Do not over tighten.
5. Turn the rotator until it clicks softly into place.
6. Rotate the camera clockwise by gripping the rotator base until it clicks into place.

To avoid image misalignment or camera/lens damage, rotate the camera clockwise using the rotator base only. Whenever you rotate the camera, make sure the rotator remains securely attached to the tripod.

4

Setting up Your Camera

iPIX® photography uses optimized camera settings. Each time you take iPIX image pairs, the exposure lock should be reset to ensure the highest quality. Some settings are not retained after the camera is turned off. Image quality settings are retained unless the batteries are removed.

The first time you use your Nikon Coolpix digital camera, you will need to set the date and time. Refer to your camera manual for detailed instructions.

Procedures for setting these options differ according to your camera model. Instructions for each camera appear on separate pages. Locate your camera model in the section heading and follow the instructions. For example, if you have a Nikon Coolpix 800 digital camera, only follow the directions for that camera, and disregard the other models' procedures.

Nikon Coolpix 700

This procedure will prepare your Nikon CoolPix 700 digital camera for iPIX photography.

Set Fisheye Lens Mode

1. Pivot the mode dial around the shutter release button on the top of the camera to M-REC mode.
2. Press the Menu button below the back LCD screen twice to show the second page of the Shooting menu.
3. Use the up and down arrow buttons to select Lens.
4. Press the shutter release button to move to the Lens menu.
5. Select Fisheye option from the Lens menu.
6. Press the shutter release button to activate the option.
7. The LCD screen will return to a normal display.

Set the Image Quality

Setting the image quality for IPIX photography is a crucial step. If your images are taken a lower resolution mode, IPIX images created using these hemispheres may appear pixelated.

1. Press the QUAL button on the top of the camera twice until the word “FINE” appears in the top LCD screen.
2. Turn off the camera by pivoting the switch around the shutter release button to off.

Nikon Coolpix 800

These instructions walk you through setting the image quality and fisheye lens mode on your Nikon Coolpix 800 digital camera.

Select Fisheye Lens Mode

1. Turn the mode dial to M-REC mode.
2. Press the MENU button below the back LCD screen twice to show the second page of the Shooting menu.
3. Use the up and down arrow buttons to select LENS.
4. Press the shutter release button to move to the LENS menu.
5. Select the FISHEYE option from the LENS menu.

6. Press the shutter release button to activate the option.

Set the Image Quality

Setting the image quality for IPIX photography is a crucial step. If your images are taken at a lower resolution mode, IPIX images created using these hemispheres may appear pixelated.

1. Make sure the camera is in M-REC mode.
1. Press the QUAL button on the top of the camera until the word "FINE" appears in the top LCD screen.
2. Turn off the camera by pivoting the switch around the shutter release button to the off position.

Your camera is now ready for iPIX Photography.

Nikon Coolpix 900

These instructions walk you through setting the image quality and fisheye lens mode on your Nikon Coolpix 900 digital camera.

Select Fisheye Lens Mode

1. Pivot the switch around the silver shutter button on the top of the camera to M-REC.
2. Press the Menu button below the back color LCD panel.
3. Select Extra Func from the menu and press the Shutter button to enable it.
4. Select Fisheye from the menu and press the shutter button to select it. An X will appear in the box next to the Fisheye option.
5. Scroll to the top of the menu and select Execute using the arrow buttons.
6. Press the shutter button to enable it.

Set the Image Quality

1. Locate the Quality button on the top of the camera.
2. Press the Quality button until the word Fine appears in the top LCD window.

Nikon Coolpix 950

This procedure walks you through setting the image quality and the Fish-eye lens mode on your camera.

Select Fisheye Lens Mode

1. Pivot the mode dial around the shutter release button on the top of the camera to M-REC mode.

2. Press the Menu button below the back LCD screen twice to display the second page of the Shooting menu.

3. Use the up and down arrow buttons to select Lens.
4. Press the shutter release button to move to the Lens menu.
5. Select the Fisheye 1 option from the Lens menu.
6. Press the shutter release button to activate the option.
7. The LCD screen will return to a normal display.

Set the Image Quality

Setting the image quality for iPIX photography is a crucial step. If your images are taken at a lower resolution mode, iPIX images created using these hemispheres may appear pixelated.

1. Press and hold the QUAL button.
2. Rotate the mode dial on the front of the camera.

3. The word “FINE” will appear in the top LCD screen.

The Nikon Coolpix 950 digital camera has several image quality modes: VGA, XGA and high quality. In XGA and VGA modes, the letters VGA or XGA appear next to the word FINE. In high quality mode, FINE appears by itself.

4. Release the QUAL button.

5

Taking Your Pictures

This chapter will walk you an iPIX® photography session. Every time you take a new set of pictures (after every two shots), you will need to repeat each of these steps, which include taking the first picture, rotating the camera, taking the second picture, and resetting Exposure Lock mode.

Before you begin taking pictures, make sure you have everything you need:

- Freshly charged batteries and a new set of alkaline batteries. Digital cameras use batteries very quickly. Even if you are using nickel metal hydride (NiMH) batteries, they may run down before you are finished taking pictures. Carrying a spare set is always a good idea.
- The flash must be disabled when you use your Nikon digital camera for iPIX photography. When you set the camera to Fisheye Lens mode, the flash is automatically disabled.
- Your camera should be in Fine mode when you turn it on. The letters "FINE" will appear in the top LCD panel.

General photography tips are also provided in this chapter.

For the best results, it is strongly recommended that you familiarize yourself with the Nikon Coolpix manuals included with your camera before taking any pictures.

Photography Tips for iPIX Images

Composing the Image

Composing an iPIX image involves two major decisions: seam placement and image viewpoint.

First, choose where the seam will fall. For example, if you are shooting a living room that features a complex and detailed dried flower arrangement, avoid placing the seam on this area. If you are shooting journalistic or action-packed subjects, such as a sporting event, avoid placing the seam in the areas where most of the action is taking place.

Second, determine the point of view by deciding where to place the camera and tripod. iPIX images place the viewer in the middle of the picture, and can make objects appear farther away than they really are.

- Don't place the tripod exactly between two areas of interest in the scene. Instead, position the tripod such that an area of interest is in the foreground of your scene.
- Determine the point of view of your shot and adjust the tripod to the appropriate height.
- Remember that the fisheye lens has over 180° of coverage. Make sure that you remain well behind the tripod when pictures are taken.

Use of Lighting

Lighting plays a crucial role in how your hemispheres look as a completed iPIX image. Just like in traditional photography, you must be aware of light sources. If you take a picture of a room facing the brightest light source, a window for example, then that hemisphere will appear dark in the area surrounding the window. The opposing hemisphere will have a normal exposure. When you build the iPIX image using these two hemispheres, the lighting will be unbalanced, with one half of the image dark, and the other half light.

- If there is a primary light source, place it on the seam. This will balance the light between the hemispheres and keep overexposure to a minimum.
- Always use the Exposure Lock setting to capture equal lighting between hemisphere pictures.
- To even out the lighting on sunny days, blinds or curtains should be closed and all room lights turned on.
- Do not turn on the flash function.

iPIX photography never involves the use of your camera's flash. Using the flash can cause uneven image exposure between hemispheres. Even if the room is darkened, you will have more consistent results if you do not use the flash.

Step 1: Set the Auto Exposure Lock

Turn on the Auto Exposure (AE) Lock to capture equal lighting between two hemisphere images. The first picture you take using the AE Lock in a pair of hemisphere images will establish the exposure for both the front and back hemispheres. Using AE Lock automatically disables the flash.

Always remember to reset the exposure lock before every pair of hemispheres. If your hemisphere images appear dark, try resetting the AE lock and retaking your images.

Nikon Coolpix 700

1. Position the switch around the shutter release button to M-REC mode.
2. Press the *Menu* button twice to display the second screen of the Shooting menu.
3. Use the zoom buttons to scroll down to AE Lock.
4. Press the shutter button to activate it.
5. Use the zoom buttons to select On and press the shutter release button to activate it.

Nikon Coolpix 800 and 950

1. Position the switch around the shutter release button to M-REC mode.
2. Press the Menu button twice to display the second screen of the Shooting menu.
3. Use the zoom buttons to scroll down to AE LOCK.
4. Press the shutter button to activate it.
5. Use the zoom buttons to select On and press the shutter release button to activate it.

After capturing each pair of hemisphere images, press the Menu button twice to display the second Shooting menu. Use the zoom buttons to scroll to AE Lock and press the shutter button. Select Reset to reset the current settings.

Nikon Coolpix 900

1. Position the switch around the shutter release button to M-REC.
2. Press the menu button, and use the down arrow to select Extra Func option.
3. Press the shutter button to activate it.
4. Scroll down to AE Lock.
5. Press the shutter button so an X appears in next to AE Lock.
6. Select Execute, and press the shutter button.

Step 2: Set the White Balance

Next, set the White Balance. The steps for setting the White Balance depends upon your camera model and the firmware version number. Firmware is a camera's operating system. Nikon periodically provides firmware updates on their Web site, http://www.nikon.com.

Determining Your Camera's Firmware Version

You can determine the firmware version by holding down the Menu button when turning the camera on. Continue to hold the Menu button while the firmware version number appears in the back LCD.

Camera Model	Firmware	White Balance Steps
700	All Versions	Manual selection
800	Version 1.0	Manual selection
800	Version 1.1	Automatic
950	Version 1.0, 1.1	Manual Selection
950	Version 1.2, 1.3	Automatic

Nikon Coolpix 700

To set the White Balance:

1. Position the switch around the shutter-release button to MREC mode.
2. Press the Menu button once to display the Shooting menu.
3. Use the zoom buttons to scroll down to White Balance, and press the shutter-release button to select it.
4. Choose the option appropriate to lighting where you are shooting and press the shutter-release button to select it.

Nikon Coolpix 800 Version 1.0 and 950 Versions 1.0, 1.1

To set the White Balance:

1. Position the switch around the shutter-release button to M-REC mode.
2. Press the Menu button once to display the Shooting menu.
3. Use the zoom buttons to scroll down to White Balance, and press the shutter-release button to select it.
4. Choose the option appropriate to lighting where you are shooting and press the shutter-release button to select it.

Nikon Coolpix 800 Version 1.1, and 950 Versions 1.2, 1.3

Cameras with these firmware revisions need to use the Automatic setting for the White Balance option. Follow the directions for your camera model below.

To set the White Balance:

1. Position the switch around the shutter-release button to M-REC mode.
2. Press the Menu button once to display the Shooting menu.
3. Use the zoom buttons to scroll down to White Balance, and press the shutter-release button to select it.
4. Choose Auto and press the shutter-release button to select it.

Step 3: Take the First Picture

When you take your first set of pictures, be aware of where you are in relation to the camera's field-of-view and the order in which pictures are taken.

- Sequencing pictures (front/back, back/front) helps to locate matching hemispheres when creating iPIX images in your iPIX software.
- Make sure that you are not in the range of the fisheye lens when you are taking pictures.
- Try to avoid capturing people at the edge of the field of view. Take care to not place the IPIX image seam on visually important regions of the image.
- Make sure your hands are out of the way so they do not appear in the image.

Procedure

1. Position the switch around the shutter-release button to M-REC mode.
2. Point the camera with the lens forward to take the picture.
3. Grasp the rotator clockwise until it clicks into place. Do not turn the rotator using the camera body.
4. Squeeze your thumb and forefinger together to take the picture. This prevents the camera from moving and your pictures from blurring.
5. Once the picture is taken, a review image will appear in the color LCD screen. This picture will be the first half of your iPIX image.

Step 4: Take the Second Picture

The first picture you take using the Auto Exposure Lock will establish the exposure for both the front and back hemispheres.

1. Move the rotator clockwise 180° until it clicks into place.

While rotating the camera, be sure the tripod does not move.

2. Squeeze your thumb and forefinger together to take the picture. This prevents the camera from moving and your pictures from blurring.
3. Once the picture is taken, a preview image will appear in the color LCD screen. This picture will become the second half of your iPIX image.
4. Reset the AE Lock by following the procedure in Step 1.
5. Repeat Steps 1 through 4 for any additional images.

Always take pictures in pairs, resetting the exposure lock for each new pair.

Step 5: Finish Your Photo Session

The black and white LCD display on the top of the camera shows the number of remaining pictures.

Disassemble the camera, lens, rotator, and tripod. Return the components to their protective places in your kit.

6

Downloading Images

There are several ways to download images from your Nikon digital camera to your computer. The most common way is to use the serial or USB cable provided with your camera. Other options include using a PCMCIA adapter card, a parallel port, or a USB memory card reader.

What if I don't have a free serial or USB port?

The adapters included with your camera kit are provided as a convenience to speed image file downloads and are included in order to support a broad range of configurations. Unfortunately, it is not possible to include an adapter for every PC connectivity option.

Parallel port memory card readers, USB card readers, and PCMCIA adapter cards are viable alternatives if you do not have an available serial port.

Deleting Images From the Memory Card

After one or more photography sessions, your memory card may have reached full storage capacity. Images can be deleted from the memory card while your camera is attached to the computer, or by using the camera's menus. The *Nikon Coolpix Pocket Guide* contains directions for deleting images from the memory card.

Option 1: Serial or USB Cables

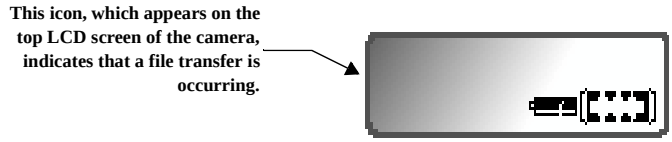
Serial and/or USB cables are provided with your camera. The Nikon View software must be installed on your computer to establish a connection between your camera and your computer.

Connecting

These instructions walk you through connecting your camera to the computer. Your camera and computer should be powered off before you begin:

1. Locate the cable for your computer.
2. Connect the cable to the IO port in your camera.
3. Plug the other end of the serial cable into the serial port in your computer.

During file transfer, the data-transfer icon will appear on the camera's top LCD screen. This icon is displayed for up to sixty seconds after the data transfer is complete. Do not disconnect the camera from the computer while the data-transfer icon is displayed.

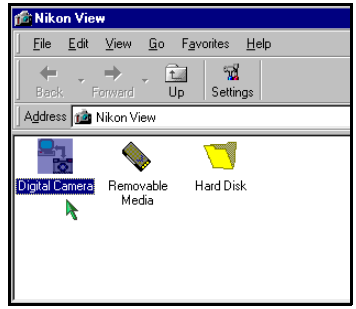


Downloading Images to a PC

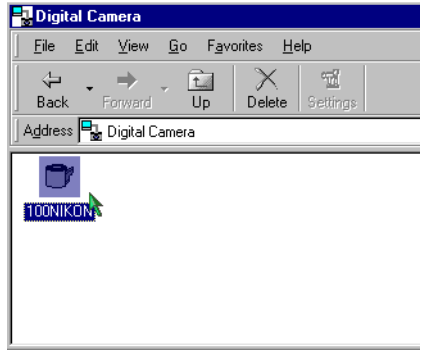
Follow these instructions to download the images to your personal computer:

To download images to your hard drive using the provided serial cables:

1. Position the camera's mode dial to A-REC, M-REC, or PLAY mode.
2. Open the Nikon View software.
3. Double-click on the Digital Camera icon.

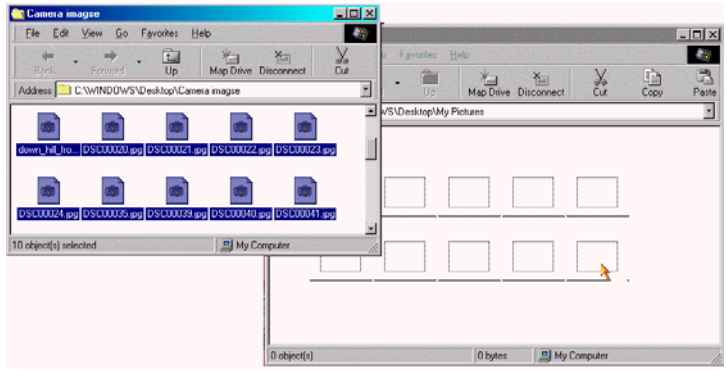


4. Double-click on the 100NIKON icon. A new window will appear showing small image previews or thumbnails of the pictures stored on the memory card.



5. Click on the Edit menu and choose Select All.
6. Once all of the images are highlighted, click on an image with your mouse, hold the mouse button down, and drag the images onto your desktop.

7. Once the image outlines are over the desktop, release the mouse button. Your computer will copy the images from the camera to your hard drive. Move the pictures to another location, if desired.

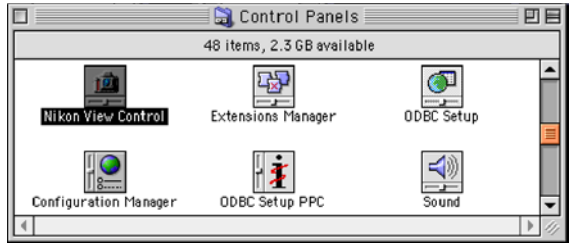


8. Close the Nikon View window when you are done.
9. Turn off your camera before disconnecting the cable.

Downloading Images to a Macintosh

To download images from the camera to your Macintosh computer:

1. Open the Control Panels folder by selecting it under the Apple Menu.
2. Choose Nikon View Control from the Control Panels folder.



3. On the Nikon View Control screen, select the connected camera port from the Port drop-down box.

4. Click **MOUNT CAMERA NOW** to access the camera. The camera will appear as an additional drive on the desktop.
5. Double-click on the camera icon to display the images.
6. Select the images by clicking on their icons and dragging them to your hard drive.
7. After you have copied the files, drag the Nikon View icon to your folder icon or the trash.
8. Turn the camera off, and disconnect the computer and camera.

Option 2: PCMCIA Card

If you have a computer with a Type II PCMCIA card slot, you can use a PCMCIA adapter. Your camera's memory card fits directly inside the PCMCIA adapter.

The adapter fits into the appropriate slot in your portable computer, or into a PCMCIA card reader in your desktop computer. Refer to the *Nikon Coolpix Reference Manual* on the Nikon Reference CD for detailed instructions.

Option 3: USB Card Reader

If your computer has a USB-compatible port, you can use a USB card reader to copy images from a memory card to your hard drive. USB Card readers are available for Macintosh and PC computers from Internet Pictures.

The instructions included with the USB Card Reader will walk you through using this device.

Option 4: Parallel Port Card Reader

Another download option is a parallel port memory card reader. This memory card reader works like a Zip drive: a card shows up as a hard drive in Windows Explorer. This option is not directly available through Internet Pictures. For more information on this option, contact your local computer retailer.